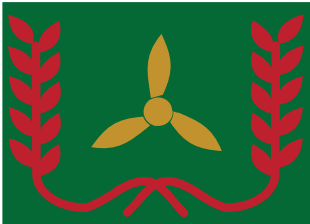


# model aero engineer

Name: \_\_\_\_\_



Requirements	Passed
<p>1. Build and fly two models. One of these models must be designed by yourself and the working drawings must be produced. The flying performance of the models built must meet the minimum criteria for the model type as set out below.</p> <p><b>FREE FLIGHT MODELS</b> The minimum flying times for each type of free flight model are:</p> <ul style="list-style-type: none"><li>a) Hand-launched glider: 30 seconds' flight.</li><li>b) Glider with maximum of 50 metres of tow line: 60 seconds' flight.</li><li>c) Rubber, electric, Carbon Dioxide powered glider: 60 seconds' flight.</li><li>d) Engine (internal combustion) powered: 90 seconds' flight (10 seconds power run).</li></ul> <p>Scale model: 30 seconds' flight.</p> <p><b>CONTROL LINE MODELS</b> The model must perform the following manoeuvres:</p> <ul style="list-style-type: none"><li>a) Scale and stunt take-off.</li><li>b) 2 level laps.</li><li>c) Approximately 2m high climb and dive for two laps.</li><li>d) Loop.</li><li>e) Horizontal figure-of-eight</li><li>f) 2 laps inverted.</li><li>g) 2 level Laps.</li><li>h) Landing.</li></ul> <p><b>RADIO CONTROLLED MODELS</b> The model must perform the following manoeuvres:</p> <ul style="list-style-type: none"><li>a) Take-off or launch.</li><li>b) Right and left runs to be done flying towards and away from the pilot.</li><li>c) Climb.</li><li>d) Dive.</li><li>e) Vertical figure of eight spiral</li><li>f) Landing.</li></ul>	
2. Demonstrate a knowledge of the importance of trim on models.	
3. Be able to perform pre-flight and post-flight checks on your models.	
4. Demonstrate a knowledge of safety guidelines to ensure safe flying.	

2009  
08/20v1

**Badge Awarded**

